SEQUENCE LISTING

<110> FURUKAWA, KEISUKE
KAJIYAMA, NAOKI

<120> MODIFIED SARCOSINE OXIDASES, GENES AND RECOMBINANT DNAS THEREOF, AND METHODS FOR PREPARING THE SAME

<130> 252202US0

<140> 10/829,427
<141> 2004-04-22

<150> JP 2003-121533
<151> 2003-04-25

<150> JP 2003-396807
<151> 2003-11-27

<150> JP 2004-116345
<151> 2004-04-12

<160> 4

<170> PatentIn version 3.3

<210> 1
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 1

Met Ser Thr His Phe Asp Val Ile Val Val Gly Ala Gly Ser Met Gly
1 5 10 15

Met Ala Ala Gly Tyr Tyr Leu Ala Lys Gln Gly Val Lys Thr Leu Leu
20 25 30

Val Asp Ala Phe Asp Pro Pro His Thr Glu Gly Ser His His Gly Asp
35 40 45

Thr Arg Ile Ile Arg His Ala Tyr Gly Glu Gly Arg Lys Tyr Val Pro
50 55 60

Phe Ala Leu Arg Ala Gln Glu Leu Trp Tyr Glu Leu Glu Asn Glu Thr
65 70 75 80

His Asn Lys Ile Phe Thr Lys Thr Gly Val Leu Val Phe Gly Pro Lys
85 90 95

Gly Glu Ser Asp Phe Val Ala Glu Thr Met Glu Ala Ala Ala Glu His
100 105 110

Ser Leu Thr Val Asp Leu Leu Glu Gly Asp Glu Ile Asn Thr Arg Trp
115 120 125

Pro Gly Ile Thr Val Pro Glu Asn Tyr Asn Ala Ile Phe Glu Pro Asn
130 135 140

Ser Gly Val Leu Phe Ser Glu Asn Cys Ile Arg Ser Tyr Arg Glu Leu
145 150 155 160

Ala Val Ala Lys Gly Ala Lys Ile Leu Thr Tyr Thr Arg Val Glu Asp
165 170 175

Phe Glu Val Ser Gln Asp Gln Val Lys Ile Gln Thr Ala Asn Gly Ser
180 185 190

Tyr Thr Ala Asp Lys Leu Ile Val Ser Met Gly Ala Trp Asn Ser Lys
195 200 205

Leu Leu Ser Lys Leu Asn Leu Asp Ile Pro Leu Gln Pro Tyr Arg Gln
210 215 220

Val Val Gly Phe Phe Asp Ser Asn Glu Ala Lys Tyr Ser Asn Asp Val
225 230 235 240

Gly Tyr Pro Ala Phe Met Val Glu Val Pro Lys Gly Ile Tyr Tyr Gly
245 250 255

Phe Pro Ser Phe Gly Gly Cys Gly Leu Lys Ile Gly Tyr His Thr Tyr
260 265 270

Gly Gln Gln Ile Asp Pro Asp Thr Ile Asn Arg Glu Phe Gly Ala Tyr
275 280 285

Gln Glu Asp Glu Ser Asn Leu Arg Asp Phe Leu Glu Lys Tyr Met Pro
290 295 300

Glu Ala Asn Gly Glu Leu Lys Arg Gly Ala Val Cys Met Tyr Thr Lys
305 310 315 320

Thr Pro Asp His His Phe Val Ile Asp Thr His Pro Glu His Ser Asn
325 330 335

Val Phe Val Ala Ala Gly Phe Ser Gly His Gly Phe Lys Phe Ser Ser
340 345 350

Val Val Gly Glu Val Leu Ser Gln Leu Ala Thr Thr Gly Lys Thr Glu
355 360 365

His Asp Ile Ser Ile Phe Ser Ile Asn Arg Pro Ala Leu Lys Gln Lys
370 375 380

Thr Thr Ile
385

<210> 2
<211> 1164
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 2
atgagtacac attttgatgt gattgttgtt ggagcaggat caatgggaat ggctgcaggg 60

tactatttag caaaacaagg agtcaaaaca ttattggtgg atgcattcga tccgccgcat 120

acagaaggaa gccatcacgg tgatactcgc attatccgcc atgcttacgg tgaaggaaga 180

gaatatgttc catttgcact aagagcacaa gaattatggt atgaacttga aaatgaaaca 240

cacaataaga tttttacaaa aacaggcgtt ctagtttttg gtccgaaagg tgaatccgat 300

ttcgttgccg aaacaatgga ggcagctgca gaacattcat tgatcgtgga tttacttgag 360

ggtgatgaaa tcaatacgcg ctggcccggc ataacggttc ctgaaaacta taatgcaatt 420

tttgaaccaa attcaggcgt attgttcagt gagaattgta ttcgttcata ccgtgagctg 480

gctgtagcaa aaggagcaaa aattttaaca tatactcgtg ttgaggattt tgaagtttct 540

caagaccaag ttaaaatcca aacggcaaat ggatcgtaca cagctgataa attaatcgta 600

agtatgggtg cttggaatag taaactactt tctaaattaa atcttgacat cccattacag 660

ccataccgcc aagttgtagg atttttttgat tctaatgaag caaagtacag caatgatgtg 720

gattatccag cattcatggt agaagtacca aaaggtattt attacggatt cccaagcttc 780

ggtggctgcg gtttgaaaat agggtatcat acgtatggtc aacaaatcga ccctgatacg 840

attaaccgtg aatttggtgc ttatcaagag gatgaaagta atcttcgcga tttcttggaa 900

aaatatatgc cagaagcaaa tggcgagtta aaacgaggcg cagcttgtat gtacacgaaa 960

acaccagatg aacatttcgt gattgatact catccagaac attccaatgt tttcgtagca 1020

gctggtttct ctggacacgg ctttaaattt tcaagtgtag tcggtgaagt gttaagtcaa 1080

ttagcgacaa caggtaaaac agaacatgat atttcaattt tctcaataaa tcgtcctgct 1140

ttaaaacaga aaacaacgat ttaa 1164

<210> 3
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 3
gtaccggatc cgctagcttt ac 22

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 4
cgacggccag agatctacta g 21